BPC Invoice Status Profile

Version 1.0
October 2022

BPC

Business Payments Coalition

1 Table of Contents

2 Introduction

2.1 Scope

This document specifies the syntax and semantic structure of the Invoice Status document type of the BPC Exchange Framework. The Invoice Status is a business level response message used to communicate the status of an invoice document.

2.2 Conformance

The keywords 'MUST', 'MUST NOT', 'REQUIRED', 'SHALL', 'SHALL NOT', 'SHOULD', 'SHOULD NOT', 'RECOMMENDED', 'MAY', and 'OPTIONAL' in this specification are to be interpreted as described in RFC2119 and RFC 8174 when, and only when, they appear in all capitals, as shown here.

2.3 Terms and Definitions

For the purpose of this specification, all terms shall have the definitions defined in section 2.3 of the E-invoice Exchange Framework – Approach to Managing a Federated Registry Services Model in a Four-Corner Network report found here: https://businesspaymentscoalition.org/wp-content/uploads/bpc-e-delivery-netwo rk-validation-exercise-2020.pdf

2.4 Normative status

This document is the sole normative specification of an Invoice Status message in the BPC Exchange Framework. All Access Points implementing Invoice Status messages MUST conform to this document.

All contents of this document, except for the provided examples, is normative, unless otherwise specified. All examples provided are non-normative, unless otherwise specified.

Any supporting artefacts developed in relation to this document are non-normative, unless explicitly referenced from this document as being normative. In case of discrepancies between this document and any supporting or related artefact, this document contains the normative information.

3 General Use

3.1 Business Document Type Identifier

The following identifier has been created using the bdx-docid-qns scheme and in accordance with BPC Identifier Policy, and MUST be used when referencing this Invoice Status profile:

```
urn:oasis:names:specification:ubl:schema:xsd:DocumentStatus-
2::DocumentStatus##bpc-1.0- invoicestatus
```

All implementations and uses of the Invoice Status within the BPC Exchange Framework using the above identifier MUST be conformant with this document. All representations of the Invoice Status identifier MUST be in accordance with the BPC Identifier Policy.

3.2 Encoding

Invoice Status documents MUST be UTF-8 encoded.

4 Data Model

4.1 Use of OASIS UBL 2.3

The BPC Exchange Framework's Invoice Status message is a profile of the Document Status document type specified in the OASIS UBL 2.3 specification: https://docs.oasis-open.org/ubl/os-UBL-2.3/UBL-2.3.html

All Invoice Status messages sent through the BPC Exchange Framework MUST conform to all conformance clauses in Section 6.1 of the above specification.

4.2 Data model

The table below defines the normative data model for the Invoice Status message. A sender MAY include additional elements and attributes; however, they MUST NOT require that a receiver be capable of understanding them.

Element or attribute	Cardinality	Definition and use
DocumentStatus	1..1	Root element of the Invoice Status.
└ UBLVersionID	1..1	The version of UBL being used. MUST be set to exactly 2.3.

∟ CustomizationID	1..1	The Business Document Type identifying the type and version of the Invoice Status being sent. MUST conform to section of this document.
∟ ID	1..1	An identifier assigned by the Sender Party for the Invoice Status. The combination of Sender Party and ID MUST be unique.
∟ IssueDate	1..1	The date the Invoice Status was created. MUST be in ISO 8601 format.
∟ IssueTime	0..1	The OPTIONAL time of day the Invoice Status was created. MUST be presented in UTC time zone and MUST be in ISO 8601 format.
∟ Note	0..1	An OPTIONAL human readable note.
∟ SenderParty	1..1	The party *sending* the Invoice Status. This MUST always be the same party that received the referenced invoice (i.e., Corner 4).
∟∟ PartyIdentification	1..1	Identification of the Sender Party.
∟∟∟ ID	1..1	The Business Identifier used to identify the Sender Party in the network, as specified in the BPC Identifier Policy.
∟∟∟ ID/@schemeID	1..1	The identifier of the scheme used to issue the Sender Party's Business Identifier, as specified in the BPC Identifier Policy.
∟ ReceiverParty	1..1	The party *receiving* the Invoice Status. This MUST always be the same party that sent the referenced invoice (i.e., Corner 1).
∟∟ PartyIdentification	1..1	Identification of the Receiver Party.
∟∟∟ ID	1..1	The Business Identifier used to identify the Receiver Party in the network, as specified in the BPC Identifier Policy.
∟∟∟ ID/@schemeID	1..1	The identifier of the scheme used to issue the Receiver Party's Business Identifier, as specified in the BPC Identifier Policy.
∟ DocumentResponse	1..1	The response to the referenced business document. The Document Response message MUST indicate exactly one valid status of the referenced invoice document.

└└ Response	1..1	The specific response.
└└└ ResponseCode	1..1	A code signifying the type of response. MUST be a code from the code list defined in section 5.2.
└└└Description	0..1	A text that further describes the response code, such as an error description. Description is OPTIONAL when ResponseCode is A (Accepted) or F1 (Paid), else it is REQUIRED. Description SHOULD include rejected invoice lines when ResponseCode is Partially Accepted.
└└ DocumentReference	1..1	Contains a unique and unambiguous reference to the invoice that was received.
└└└ ID	1..1	The identifier of the document being referenced.
└└└ IssueDate	0..1	The OPTIONAL date that the referenced business document was issued, that it may help the receiver of the Document Response identifying the document.
└└└ IssueTime	0..1	The OPTIONAL time that the referenced business document was issued, that it may help the receiver of the Document Response identifying the document.
└└└ VersionID	0..1	An OPTIONAL identifier of a specific version of the referenced document, for example if an original document has been corrected.

5   Code lists

5.1   Use of OASIS UBL 2.3

All codes in the code lists when encountered in an Invoice Status document MUST be treated as case insensitive.

5.2   Document Response Codes

Code	Meaning
A	**Accepted** Approved for payment.
E	**Accepted, But Errors Were Noted** Approved for payment with noted errors.
P	**Partially Accepted**

	Some, but not all invoice lines are approved for payment.	
R	**Rejected** Not approved for payment.	
P0	**In process** Transaction is being processed.	
P2	**Under query** Processing has been halted pending response to a query.	
F1	**Paid** Transaction has been paid.	

6 Example (non-normative)

```xml
<?xml version="1.0" encoding="UTF-8"?>
<DocumentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns="urn:oasis:names:specification:ubl:schema:xsd:DocumentStatus-2"
 xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2"
 xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2">
  <cbc:UBLVersionID>2.3</cbc:UBLVersionID>
  <cbc:CustomizationID>urn:oasis:names:specification:ubl:schema:xsd:DocumentStatus-2::DocumentStatus##bpc-1.0- invoicestatus</cbc:CustomizationID>
  <cbc:ID>INVOICE-00022-STATUS-001</cbc:ID>
  <cbc:IssueDate>2022-09-19</cbc:IssueDate>
  <cbc:IssueTime>12:56:00Z</cbc:IssueTime>
  <cbc:Note languageID="en">This is an example Invoice Status document</cbc:Note>
    <cac:SenderParty>
        <cac:PartyIdentification>
            <cbc:ID schemeID="DUNS">123456789</cbc:ID>
        </cac:PartyIdentification>
    </cac:SenderParty>
    <cac:ReceiverParty>
      <cac:PartyIdentification>
        <cbc:ID schemeID="EIN">987654321</cbc:ID>
      </cac:PartyIdentification>
    </cac:ReceiverParty>
    <cac:DocumentResponse>
      <cac:Response>
        <cbc:ResponseCode>A</cbc:ResponseCode>
        <cbc:Description>The invoice was accepted</cbc:Description>
```

```
      </cac:Response>
      <cac:DocumentReference>
        <cbc:ID>INVOICE-00022</cbc:ID>
        <cbc:IssueDate>2022-09-10</cbc:IssueDate>
        <cbc:IssueTime>10:11:12Z</cbc:IssueTime>
        <cbc:VersionID>1</cbc:VersionID>
      </cac:DocumentReference>
      </cac:DocumentResponse>
    </DocumentStatus>
```